

**Amendments to Claims:**

This listing of claims will replace all prior versions and listings of the claims in the application:

**Listing of Claims:**

1. (currently amended) A method for detecting a folder position in a rotation touch phone having a camera, the rotation touch phone including a sensor section, a folder, a body, and a connecting section, the folder having a magnet, the sensor section including first, second and third sensors for detecting the magnet, the first and second sensors being located on the body and the third sensor being located on the connecting section, the connecting section connecting the folder to the body, the folder being movable from first, second, third and fourth states, the first state signifying a state in which the folder is initially closed, the second state signifying a state in which the folder has been opened from the first state, the third state signifying a state in which the folder has been rotated substantially 180 degrees from the second state, the fourth state signifying a state in which the folder has been closed from the third state, wherein the orientation of the folder with respect to the body in the fourth state is different than the orientation of the folder with respect to the body in the first state, the method comprising the steps of:

i) receiving a signal from the sensor section notifying that the sensor section detects the magnet; and

ii) ~~deciding that the folder is in at least one of the first to fourth states, based on the signal input from the sensor section~~ deciding that the folder is in the first state in which the folder is closed, when only the first sensor detects the magnet;

deciding that the folder is in the second state in which the folder has been opened, when none of the first to third sensors detect the magnet;

deciding that the folder is in the third state in which the folder has been rotated substantially 180 degrees, when only the third sensor detects the magnet; and

deciding that the folder is in the fourth state in which the folder is closed, when both the second and third sensors detect the magnet.

2. (currently amended)      The method as claimed in claim 1, ~~wherein step i) includes the steps of~~ further comprising:

- a) ~~transferring~~ a signal notifying that the first sensor detects the magnet;
- b) ~~transferring~~ a signal notifying that the second sensor detects the magnet; and
- e) ~~transferring~~ a signal notifying that the third sensor detects the magnet.

3. (canceled)

4. (currently amended)      A method for converting a mode of a rotation touch phone having a camera into a speakerphone mode by detecting a folder position, the rotation touch phone including a sensor section, a folder, a body, and a connecting section, the folder having a magnet and a bi-directional speakerphone, the sensor section including first, second and third sensors for detecting the magnet, the first and second sensors being located on the body and the third sensor being located on the connecting section, the connecting section having the camera and connecting the folder to the body, the folder being movable from first, second, third and fourth states, the first state signifying a state in which the folder is initially closed, the second state signifying a state in which the folder has been opened from the first state, the third state signifying a state in which the folder has been rotated substantially 180 degrees from the second state, the fourth state signifying a state in which the folder has been closed from the third state, wherein the orientation of the folder with respect to the body in the fourth state is different than the orientation of the folder with respect to the body in the first state, the method comprising ~~the steps of:~~

deciding that the folder is in the first state in which the folder is closed, when only the first sensor detects the magnet;

deciding that the folder is in the second state in which the folder has been opened, when none of the first to third sensors detect the magnet;

deciding that the folder is in the third state in which the folder has been rotated substantially 180 degrees, when only the third sensor detects the magnet; and

deciding that the folder is in the fourth state in which the folder is closed, when both the second and third sensors detect the magnet

i) ~~converting the mode of the rotation touch phone into the speakerphone mode when the first sensor detects the magnet, which represents that the folder is in the first state in which the folder is closed; and~~

ii) ~~converting the mode of the rotation touch phone into the speakerphone mode when the second sensor detects the magnet, which represents that the folder is in the fourth state in which the folder is closed by being rotated from the third state.~~

5. (currently amended) A method for utilizing first and second display sections as an illumination source when photographing an object by detecting a position of a folder in a rotation touch phone having a rotatable camera, the rotation touch phone including a sensor section, a folder, a body, and a connecting section, the folder having a magnet and the first and second display sections, the sensor section including first, second, and third sensors for detecting the magnet, the first and second sensors being located on the body and the third sensor being located on the connecting section, the connecting section connecting the folder to the body and having the camera, the folder being movable from first, second, third and fourth states, the first state signifying a state in which the folder is initially closed, the second state signifying a state in which the folder has been opened from the first state, the third state signifying a state in which the folder has been rotated substantially 180 degrees from the second state, the fourth state signifying a state in which the folder has been closed from the third state, wherein the orientation of the folder with respect to the body in the fourth state is different than the orientation of the folder with respect to the body in the first state, the method comprising the steps of:

~~i) deciding that the folder is in at least one of the first to fourth states, when the sensor section inputs a signal notifying that the sensor section detects the magnet~~deciding that the folder is in the first state in which the folder is closed, when only the first sensor detects the magnet;

deciding that the folder is in the second state in which the folder has been opened, when none of the first to third sensors detect the magnet;

deciding that the folder is in the third state in which the folder has been rotated substantially 180 degrees, when only the third sensor detects the magnet;

deciding that the folder is in the fourth state in which the folder is closed, when both the second and third sensors detect the magnet; and

ii)-utilizing at least one of the first and second display sections as the illumination source when the folder is in at least one of the second and third states.

6. (currently amended) The method as claimed in claim 5, ~~wherein step ii) includes the steps of~~ further comprising:

a)-utilizing the second display section as the illumination source when the folder is in the second state; and

b)-utilizing the first display section as the illumination source when the folder is in the third state.

7. (currently amended) A rotation touch phone comprising a folder, a body, and a connecting section, comprising:

a camera ~~adapted to~~ for taking pictures for the rotation touch phone;  
first and second display sections ~~for~~ adapted to inputting and outputting information for the rotation touch phone;

a sensor section ~~for~~ adapted to detecting a position of a magnet disposed on the folder section, the sensor section including first, second and third sensors, the first and second sensors being located on the body and the third sensor being located on the connecting section;

the folder being ~~for~~ adapted to moving from first, second, third and fourth states, the first state signifying a state in which the folder section is initially closed, the second state signifying a state in which the folder section has been opened from the first state, the third state signifying a state in which the folder section has been rotated substantially 180 degrees from the second state, the fourth state signifying a state in which the folder section has been closed from the third state, wherein the orientation of the folder with respect to the body in the fourth state is different than the orientation of the folder with respect to the body in the first state; and

a controller ~~adapted to~~ for receiving a signal from the sensor section indicating that the sensor section detects the magnet, ~~and decide that the folder section is in at least one of the first to fourth states, based on the signal input from the sensor section~~ deciding that the folder is in the first state in which the folder is closed, when only the first sensor detects the magnet, deciding that the folder is in the second state in which the folder has been opened, when none of the first

to third sensors detect the magnet, deciding that the folder is in the third state in which the folder has been rotated substantially 180 degrees, when only the third sensor detects the magnet, and deciding that the folder is in the fourth state in which the folder is closed, when both the second and third sensors detect the magnet.

8. (currently amended)      The apparatus of claim 7, wherein the controller is further adapted to for:

transferring a signal indicating that the first sensor detects the magnet;  
transferring a signal indicating that the second sensor detects the magnet;  
and  
transferring a signal indicating that the third sensor detects the magnet.

9. (cancelled)

10. (currently amended)      A rotation touch phone, having a speakerphone, ~~and being adapted to for~~ converting into a speakerphone mode by detecting a folder position, the rotation touch phone including a sensor section, a folder, a body; and a connecting section, the folder having a magnet and a bi-directional speakerphone, the sensor section including first, second and third sensors for detecting the magnet, the first and second sensors being located on the body and the third sensor being located on the connecting section, the connecting section having the camera and connecting the folder to the body, the folder being movable from first, second, third and fourth states, the first state signifying a state in which the folder is initially closed, the second state signifying a state in which the folder has been opened from the first state, the third state signifying a state in which the folder has been rotated substantially 180 degrees from the second state, the fourth state signifying a state in which the folder has been closed from the third state, wherein the orientation of the folder with respect to the body in the fourth state is different than the orientation of the folder with respect to the body in the first state, the rotation touch phone comprising:

a controller for deciding that the folder is in the first state in which the folder is closed, when only the first sensor detects the magnet, deciding that the folder is in the second state in

which the folder has been opened, when none of the first to third sensors detect the magnet, deciding that the folder is in the third state in which the folder has been rotated substantially 180 degrees, when only the third sensor detects the magnet, deciding that the folder is in the fourth state in which the folder is closed, when both the second and third sensors detect the magnet,  
converting the mode of the rotation touch phone into the speakerphone mode when ~~the first sensor detects the magnet, which represents that the folder is in the first state in which the folder is closed;~~ and

converting the mode of the rotation touch phone into the speakerphone mode when ~~the second sensor detects the magnet, which represents that the folder is in the fourth state in which the folder is closed by being rotated from the third state.~~

11. (currently amended) A touch tone phone having a rotatable camera that utilizes first and second display sections as an illumination source when photographing an object by detecting a position of a folder in the rotation touch phone, the rotation touch phone including a sensor section, a folder, a body, and a connecting section, the folder having a magnet and the first and second display sections, the sensor section including first, second, and third sensors for detecting the magnet, the first and second sensors being located on the body and the third sensor being located on the connecting section, the connecting section connecting the folder to the body and having the camera, the folder being movable from first, second, third and fourth states, the first state signifying a state in which the folder is initially closed, the second state signifying a state in which the folder has been opened from the first state, the third state signifying a state in which the folder has been rotated substantially 180 degrees from the second state, the fourth state signifying a state in which the folder has been closed from the third state, wherein the orientation of the folder with respect to the body in the fourth state is different than the orientation of the folder with respect to the body in the first state, the touch tone phone comprising:

a controller for deciding that the folder is in the first state in which the folder is closed, when only the first sensor detects the magnet, deciding that the folder is in the second state in which the folder has been opened, when none of the first to third sensors detect the magnet, deciding that the folder is in the third state in which the folder has been rotated substantially 180 degrees, when only the third sensor detects the magnet, deciding that the folder is in the fourth

state in which the folder is closed, when both the second and third sensors detect the magnet~~adapted to decide that the folder is in at least one of the first to fourth states, when the sensor section inputs a signal indicating that the sensor section detects the magnet,~~ and utilizing at least one of the first and second display sections as the illumination source when the folder is in at least one of the second and third states.

12. (currently amended) The touch tone phone of claim 11, wherein the controller is further ~~adapted to for~~ utilizinge the second display section as the illumination source when the folder is in the second state, and the controller is further ~~adapted to for~~ utilizinge the first display section as the illumination source when the folder is in the third state.